

PATENT
Customer No. 22,852
Attorney Docket No. 7447.0021-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Jeng Ping LU et al.) Group Art Unit: Unknown
Rule 53(b) Divisional of Prior Application:) Examiner: Unknown
Serial No. 09/419,293, filed 10/15/99)
Serial No.: Not Yet Assigned)
For: DUAL DIELECTRIC STRUCTURE)
FOR SUPPRESSING LATERAL)
LEAKAGE CURRENT IN HIGH)
FILL FACTOR ARRAYS)

Commissioner for Patents and Trademarks
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

Prior to the examination of the above application, please amend this application
as follows:

IN THE CLAIMS:

Please cancel claims 1-6, without prejudice or disclaimer of the subject matter,
and add new claims 11-15, as follows:

11. (New) A high fill factor image array formed by:

providing a plurality of source-drain metal contacts;

depositing a first passivation layer;

depositing a second passivation layer over the first passivation layer that

suppresses lateral leakage current;

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

opening a plurality of via holes through the first and second passivation layers;
depositing a layer of conductive material;
depositing a first doped a-Si layer;
patterning to form the collection electrodes;
depositing a continuous layer of i a-Si;
depositing a continuous second layer of doped a-Si;
depositing and patterning an upper conductive layer.

12. (New) The high fill factor image array of claim 11, wherein the first passivation layer comprises at least one of silicon oxynitride, BCB, or a polyamide.

13. (New) The high fill factor image array of claim 11, wherein the second passivation layer is an oxide.

14. (New) The high fill factor image array of claim 11, wherein the second has a thickness of about 1000 Å.

15. (New) The high fill factor image array of claim 11, wherein the thickness of the second passivation layer is less than the thickness of the first passivation layer.

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REMARKS

In filing the divisional application, Applicants have canceled claims 1-6, without prejudice or disclaimer of the subject matter thereof, and added new claims 11-15.

Claims 7-15 are pending.

Applicants respectfully request early and favorable examination.

If there is any fee due in connection with the filing of this Preliminary Amendment, please charge the fee to our Deposit Account No. 24-0037.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: February 7, 2002

By: 

Timothy M. Hsieh
Registration No. 42,672

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com